

# SEQUENCE LISTING

<110> Bruce, Wesley B.

<120> A Nitrate-Responsive Root  
Transcriptional Factor

<130> 1263

<150> US 60/238,292

<151> 2000-10-05

<160> 2

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 1280

<212> DNA

<213> Zea mays

<220>

<221> CDS

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<400> 1

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tcctcccttg	ggaaacctgc	tgcctttgag	ctttcttctt	cgagagctcc	caccagatct	180
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atcgctcgcg	tcggtccttg	cttcgcatcg	gagggccaca	accacaacct	ctcgtcccat	300
agcgtgcaag	cgcgagccag	ggtcaagaag	agagctagct	agctataggc	cggagatcg	359
atg ggg agg gga aag atc gtg atc cgc agg atc gat aac tcc acg agc						407
Met Gly Arg Gly Lys Ile Val Ile Arg Arg Ile Asp Asn Ser Thr Ser						
1	5	10	15			
cgg cag gtg acc ttc tcc aag cgc cgg aac ggg atc ttc aag aag gcc						455
Arg Gln Val Thr Phe Ser Lys Arg Arg Asn Gly Ile Phe Lys Lys Ala						
20	25	30				
aag gag ctc gcc atc ctc tgc gat gcg gag gtc ggc ctc gtc atc ttc						503
Lys Glu Leu Ala Ile Leu Cys Asp Ala Glu Val Gly Leu Val Ile Phe						
35	40	45				
tcc agc acc ggc cgc ctc tac gag tac tct agc acc agc atg aaa tca						551
Ser Ser Thr Gly Arg Leu Tyr Glu Tyr Ser Ser Thr Ser Met Lys Ser						
50	55	60				
gtt ata gat cgg tac ggc aag gcc aag gaa gag cag caa gtc gtc gca						599
Val Ile Asp Arg Tyr Gly Lys Ala Lys Glu Glu Gln Gln Val Val Ala						
65	70	75	80			
aat ccc aac tcg gag ctt aag ttt tgg caa agg gag gca gca agc ttg						647
Asn Pro Asn Ser Glu Leu Lys Phe Trp Gln Arg Glu Ala Ala Ser Leu						
85	90	95				

aga caa caa ctg cac aac ttg caa gaa aat tat cgg cag ttg acg gga	695
Arg Gln Gln Leu His Asn Leu Gln Glu Asn Tyr Arg Gln Leu Thr Gly	
100 105 110	
gat gat ctt tct ggg ctg aat gtc aaa gaa ctg cag tcc ctg gag aat	743
Asp Asp Leu Ser Gly Leu Asn Val Lys Glu Leu Gln Ser Leu Glu Asn	
115 120 125	
caa ttg gaa aca agc ctg cgt ggt gtc cgc gca aag aag gac cat ctc	791
Gln Leu Glu Thr Ser Leu Arg Gly Val Arg Ala Lys Lys Asp His Leu	
130 135 140	
ttg ata gat gag att cac gat ttg aat cga aag gca agt tta ttt cac	839
Leu Ile Asp Glu Ile His Asp Leu Asn Arg Lys Ala Ser Leu Phe His	
145 150 155 160	
caa gaa aat aca gac ttg tac aat aag atc aac ctg att cgc caa gaa	887
Gln Glu Asn Thr Asp Leu Tyr Asn Lys Ile Asn Leu Ile Arg Gln Glu	
165 170 175	
aat gat gag tta cat aaa aag ata tat gag act gaa gga cca agt gga	935
Asn Asp Glu Leu His Lys Lys Ile Tyr Glu Thr Glu Gly Pro Ser Gly	
180 185 190	
gtt aat cgg gag tca ccg act cca ttc aac ttt gca gta gta gaa acc	983
Val Asn Arg Glu Ser Pro Thr Phe Asn Phe Ala Val Val Glu Thr	
195 200 205	
aga gat gtt cct gtg caa ctt gaa ctc agc aca ctg cca cag caa aat	1031
Arg Asp Val Pro Val Gln Leu Glu Leu Ser Thr Leu Pro Gln Gln Asn	
210 215 220	
aac att gag cca tct act gct cct aag cta gga ttg caa tta att cca	1079
Asn Ile Glu Pro Ser Thr Ala Pro Lys Leu Gly Leu Gln Leu Ile Pro	
225 230 235 240	
tga agaagagtaa aactgccgtc ttatgatgct gaaggaaact atttattgtg	1132
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aagagatgat actcagagaa agacatatatt gtggcagggg gatttgagat atgaacttat	1192
aaatgtaatg caaataattt tcagaccgga atgggggtcgt ggaattcaga ggatgattgc	1252
tttctaaaaa aaaaaaaaaa aaaaaaaa	1280

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 <211> 240  
 <212> PRT  
 <213> Zea mays

<400> 2  
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 1 5 10 15  
 Arg Gln Val Thr Phe Ser Lys Arg Arg Asn Gly Ile Phe Lys Lys Ala  
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 Lys Glu Leu Ala Ile Leu Cys Asp Ala Glu Val Gly Leu Val Ile Phe  
 35 40 45  
 Ser Ser Thr Gly Arg Leu Tyr Glu Tyr Ser Ser Thr Ser Met Lys Ser

